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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,682	02/02/2005	Paul G Shiels	0380-P03437US0	4505
110 7590 11/05/2007 DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET SUITE 2400 PHILADELPHIA, PA 19103-2307			EXAMINER	
			MONTANARI, DAVID A	
			ART UNIT	PAPER NUMBER
	111,111,111,103,230,		1632	
			MAIL DATE	DELIVERY MODE
			11/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/501,682	SHIELS, PAUL G				
	Office Action Summary	Examiner	Art Unit				
	•	David Montanari	1632				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS and time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Disperiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•					
1)⊠	Responsive to communication(s) filed on 09 Au	<u>ugust 2007</u> .					
2a)⊠	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-9,11-17,20-22 and 24-32</u> is/are pen 4a) Of the above claim(s) <u>5,6,11-17,20-22,24-2</u> Claim(s) is/are allowed. Claim(s) <u>1-4,7-9,28,29,31 and 32</u> is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	<u>7 and 30</u> is/are withdrawn from o	consideration.				
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex						
Priority (	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmer	nt(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice 3) Information	ce of Neterences Offed (170-032) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 8/9/2007.	Paper No(s)/Mail D  5) Notice of Informal F  6) Other:	ate				

#### **DETAILED ACTION**

- 1. Applicants amendments filed on 8/9/2007 have been entered.
- 2. Claims 1, 7, 8, 31 and 32 have been amended.
- 3. Claims 10, 18, 19 and 33-35 have been cancelled.
- 4. The rejection of claim 7 under 35 USC 112, first parag. written desc., is withdrawn.
- 5. The rejection of claim 9 under 35 USC 112, second parag. is withdrawn.
- 6. Claims 1-4, 7-9, 28, 29, 31 and 32 are examined in the instant application.

#### **Objections**

Applicants has amended claim 1 to recite that G22P1 protein is examined in the donor tissue. Claim 31, which depends from claim 4 and further depends from claim 1 recites that the method further comprises determining the expression level of other proteins to include G22P1, which does not further limit the claim. This appears to be a typo as Applicant has deleted G22P1 in claim 7 for example.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4, 7-9, 28-29, and 31-32 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and/or use the invention for reasons of record in the office action mailed on 2/9/2007.

## Response to Arguments

Applicant argues in amendment filed on 8/9/2007 that in view of In re Wands, the claimed method does not require an undue amount of experimentation when viewed by the skill of the ordinary artisan. Specifically Applicant argues that the skilled person frequently assesses factors including gene expression levels when tissue is to be considered for transplantation.

Applicant continues that several non-patent literature has been submitted with their response to support the position that analyzing gene expression levels in renal grafts is routine. Applicant argues that claim 1 has been amended to recite that the reference level of expression is that observed in a healthy tissue sample. Applicant continues that Melk et al. does show that it is possible to correlate telomere length to renal tissue with age and that Joosten et al. make no mention of G22P1. These arguments are not persuasive.

While Applicant has amended the claimed method to now recite a specific endogenous telomere binding protein, G22P1, and that the reference level of expression is now observed in a healthy tissue sample, significant issues remain regarding the enablement of the claimed method. First there is no limitation in the claimed method that the donor tissue and the healthy tissue sample now recited be of the same tissue type. The donor tissue could be heart and the healthy tissue sample could be kidney. See pg. 6 of the previous non-final rejection for discussions on this matter. This contrast would make the claimed method highly unpredictable for the skilled artisan to practice. One could argue that it would be obvious to use the same tissue types for both the donor and the healthy tissue sample, but given the broadest reasonable interpretation of the

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claimed method, two different tissue types are being contrasted with respect to G22P1 expression levels. Secondly, Applicants arguments and the references supplied do not address the issues still remaining with respect to a reference level of G22P1 expression levels in a healthy tissue sample. The art of record teaches that telomere binding protein levels are transient with age and that determining a reference level would be significantly difficult for the skilled artisan. Simply put, there is no reference level for G22P1 protein expression in any tissue. For example, the levels of G22P1 protein would be different in a 6-year old renal sample vs. a 45-year old renal sample. The art of record does not address G22P1 expression levels with respect to transplantation but that telomere binding proteins, of which G22P1 belongs to, are transient and not predictable. Thus for reasons of record and above the rejection is maintained.

No claims are allowed.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Montanari whose telephone number is 1-571-272-3108.

The examiner can normally be reached on M-Tr 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Paras can be reached on 1-571-272-4517. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David A. Montanari, Ph.D.

PETER PARAS, JH.
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600